

Table of Contents and Review of:
Physical and Chemical Studies of Austenitic Alloys,
10 pp.

RUSSIAN, bk, Fiziko-Khimicheskiye Issledovaniya
Austenitnykh Splavov, Tsentral'nyy Nauchno Issledovatel-
skiy Institut Tekhnologii i Mashinostroyeniya, Moscow,
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Annotation and T/C of

Physical-Chemical Investigations of Austenite Alloys, 3 p

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Apparatus for Measuring Magnetic Susceptibility
of Austenitic Alloys, S. D. ENTIN.

RUSSIAN, bk. Fiziko-Khimicheskie Issledovaniya
Austenitnykh Splavov, 1957.

*BISI E 2192

Sci - *Engel, 11/2/61*

Jun 61

Electromagnetic Apparatus for Determining Ferrite
in Weld Seams in Austenitic Steels, by S. D. ENTIN,
and V. Ya. KOZLOV.

RUSSIAN, bk. Fiziko-Khimicheskie Issledovaniya
Austenitnykh Splavov, 1957

*BISI E 2200

Sci - *Engineering, Metallurgy*

Jun 61

Physicochemical Investigation of Sedimentary Iron
and Manganese Ores and Enclosing Rocks (Oxidation-
Reduction and Basic-Acid Properties of Sedimentary Ore-
Bearing Complexes, by E. I. Sokolova.

RUSSIAN, mono, Fiziko-Khimicheskie Issledovaniya
Osadochnykh Zheleznykh i Margantsevykh Rud i
Vmeshchayushchikh Ikh Porod, Moscow, 1962, 214 pp.

IPST 2062

Also TT-65-22473

Sci
Jul 63

(DC - 6055)

Physico-Chemical Investigations on Barium and
Iron Titanates, by N. I. Shchepochkin,

RUSSIAN, monograph, Fiziko-Khimicheskiye
Issledovaniya Titanatov Bariya i Zheleza,
1958, PP 1-62.

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Sci - Min/Met

13 Mar 61

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~~Adsorption~~ Absorption Phenomena and Fracture
Processes, by V. I. Likhtman, et al. 24 pp.

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Metallov; Adsorbtsionnyye Yavleniya v
Protsessakh Deformatsii i Razrusheniya, 1962,

302 pp

PL-480

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OT S 64-11000

Mar 63

Physicochemical Basis of the Analysis of the
Paragenesis of Minerals, by D. S. Korshinskiy, 180 pp

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Paragenesisev Mineralov, 1957, 180-pp. HDC Jan-
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Sci - Min/Met

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Effect of Vacuum Degassing on Casting Properties of Alloys, by Yu. A. Nektandzi, 36 pp.
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297.
JPRS 30212

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Sci-Mat/Mat
May 65

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The Physico-chemical Principles of
Metallurgical Processes.

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Protsessov, 1964, 444 pp.

NLL RTS 31405 (On Loan)

Aug 65

287,214

The Physicochemical Principles of Igneous Petrology,
by A. N. Zavaritskii and V. S. Sotolov, 220 p.
RUSSIAN, mono, Fiziko-Khimicheskie Osnovy Petrografii
Izverzhennykh Gornykh Porod, 1961.
IPST-2056

Sci-Bar Sci
Jun 66

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Oxidation of Chromium and Phosphorus
During Oxygen Top Blowing of Steel,
by N. P. Levenets, et al.

RUSSIAN, ~~ENG~~, rpt, Fiz-Khim Osnovy ~~ENG~~
Proiz, 1961, pp 237-244.

HB 5361

Sci - Chem

Jan 62

178,322

Refining of Rimmed Steel by Removal of High
Melting Inclusions, by S. I. Popel, G. F. Konovalov.
RUSSIAN, rpt, Fiz-Khim Osnovy Proizvod Stali,
1961, pp 325-330.
•BISI 3751

Sci & Engg M/M
Jun 64

Effect of Carbon on the Permeability
of Steels to Hydrogen, by P. V. Gel'd,
R. A. Ryabov.

RUSSIAN, rpt, Fiz-Khim Osnovy Proiz Stali,
1961, pp 457-460.

HB 5360

Sci - Chem

Jan 62

178, 313

Physicochemical Process of Chemical Deposition
of Nickel, by K. M. Gorbunova, A. A. Nikiforeva.

RUSSIAN, monograph, Fiziko-Khimicheskiye
Osnovy Protsessa Khimicheskogo Nikelirovaniya,
Moscow, 1960, 207 pp.

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*PL-480

OTS 62-11003

Sci
14 Feb 63
Vol VIII, No 11

Thompson, J. B.
MINERAL FACIES IN FELTIC SCHISTS
Ivan Mittin, tr. 1963 [37p] 34refs
Order from OTS, SLA, or ETC \$3.60 TT-64-15098

Trans. of mono. Fiziko-Khimicheskie Problemy
Formirovaniya Gornyykh Porod i Rud (Physico-Chemical
Problems of Formation of Rocks and Ores) Moscow,
1961, p. 313-325.

(Earth Sciences--Mineralogy, TT, v. 11, no. 11)

TT-64-15098

- I. Thompson, J. B.
- II. Title: Physico-Chemical...
- III. Geological Survey,
Denver, Colo.

Office of Technical Services

Pressure-Temperature Diagram of Part of the
 $\text{SiO}_2\text{-H}_2\text{O}$ System, by I. A. Ostrovskiy and G. P.
Mishina, et al,
RUSSIAN, per, Fizikokhimicheskie Problemy
formirovaniya Gornyykh Porod i Rud, Vol I,
1961, pp 641-646. 100031466
AFCLR T-R-628

Sci-Phys
Sept 66

310,583

Forward, by G. M. Frank,

RUSSIAN, bk, Fiziko-Khimicheskie i Strukturnye
Osnovy Biologicheskikh Yavlenii, 1960, pp 3-6.

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Sci - *[Handwritten signature]*
Aug 61

Vol'kenshtein, M. V.
LARGE MOLECULES AND BIOLOGY (Bol'shie
Molekuly i Biologiya). 20 Oct 61, 8p. Trans. A-1300.
Order from OTS or SLA \$1.10 62-13476

Trans. of mono. Fiziko-Khimicheskie i Strukturne
Osnovy Biologicheskikh Yavlenii, Moscow, 1960,
p. 7-11.

DESCRIPTORS: *Molecular structure, *Polymers,
Blood plasma, Proteins, Stereochemistry, Molecular
isomerism, *Electrolytes (Physiology), Bioelectronics,
Mitosis, *Biochemical genetics.

A discussion is presented of the reason why organisms
are formed, in the main, from high molecular com-
pounds, why life does not use material constructed
from small molecules, such as, for instance, metals
and semiconductors? The answer to this question is
connected with the examination of the characters that
distinguish macromolecules from small molecules.

62-13476

I. Vol'kenshtein, M. V.
II. Trans-A-1300

(Biological Sciences, TT, v 7,
no. 10)
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62-13475

I. Kitaigorodskii, A. I.
II. Trans-A-1301

Kitaigorodskii, A. I.
TASKS OF STRUCTURAL INVESTIGATIONS IN THE
FIELD OF HIGH POLYMERIC AND HIGH MOLECULAR
SUBSTANCES (Zadachi Strukturykh Issledovani
v Oblasti Vysokopolimernykh i Vysokomolekulyarnykh
Veshchestv). 20 Oct 61, 11p. 4 refs. Trans. A-1301.
Order from OTS or SLA \$1.60 62-13475

Trans. of mono. Fiziko-Khimicheskie i Strukturne
Osnovy Biologicheskikh Yavlenii, Moscow, 1960,
p. 12-17.

DESCRIPTORS: *Polymers, *Organic compounds,
Molecules, *Molecular structure, Molecular beams,
Ribonuclease.

(Physics--Molecular, TT, v. 7, no. 9)

Office of Technical Services

62-13474

Dubin, N. P., Sidorov, B. N., and Sokolov, N. N.
RADIOGENETIC EFFECT OF VISIBLE LIGHT IN
PROVOKING CHROMOSOMAL REARRANGEMENTS
(Radiogeneticheskii Effekt Vidimogo Sveta pri
Vyzyvanii Khromosomnykh Perestroek). 25 Oct 61,
22p. 44 refs. Trans. A-1302.
Order from OTS or SLA \$2.60

62-13474

Trans. of mono. Fiziko-Khimicheskie i Strukturne
Osnovy Biologicheskikh Yavlenii, Moscow, 1960,
p. 142-153.

DESCRIPTORS: *Chromosomes, Cells (Biology),
Photochemistry, Mitosis, Chemical reactions,
Genetics, *Light, Visibility, Radiation effects.

The photodynamic action of rivanol in relation to
chromosome rearrangements in the cells of onion
roots was demonstrated. Photons, even with energy
as low as that of visible light, in penetrating into the
(Nuclear Physics--Radioactivity, TT, v. 8, no. 1)(over)

- I. Dubin, N. P.
- II. Sidorov, B. N.
- III. Sokolov, N. N.
- IV. Trans-A-1302

Office of Technical Services

Importance of Histo-Chemical Characteristics of
Isoelectric Points of Nucleo-Proteins of Cell
Cytoplasm of the Animal Organism in the Theory of
Radio Biological Reactivity, by A. L. Shabadash, 26 pp.

RUSSIAN, bk, Fiziko-Khimicheskie i Strukturnye
Osnovy Biologicheskikh Yavlenii, 1960, pp 154-168.

USDA A-1303

Sci -
14 Aug 61

62-13470

Breslavets, L. P. and Milesko, Z. F.
IMPORTANCE OF POLYPLOIDY IN THE PROTECTION OF PLANTS AGAINST IONIZING RADIATION
(Znacheniye Poliploidii v Zashchite Rastenii ot Ioniziruyushchikh Izlucheni). 24 Oct 61, 10p. 4 refs.
Trans. A-1304.
Order from OTS or SLA \$1. 10

62-13470

Trans. of mono. Fiziko-Khimicheskiye i Strukturnye
Osnovy Biologicheskikh Yavlenii, Moscow, 1960,
p. 169-174.

DESCRIPTORS: *Chromosomes, *Radiation damage,
Countermeasures, Growth, Seeds, Nucleic acids,
Pollen, Gamma rays, Neutrons, *Plants.

Experiments in protection of plants [against radiation]
with the aid of chemical action produce successful
results which can be explained by a decrease of
chromosome aberrations. But such protection has an
(Nuclear Physics--Radioactivity, TT, v. 8, no. 2)
(over)

I. Breslavets, L. P.
II. Milesko, Z. F.
III. Trans-A-1304

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Physico-Chemical Basis of the Process of Gluing
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RUSSIAN, bk, Fiziko-khimicheskie osnovy protsessov
skleivaniya i prilipaniya -- Moskva, Legnaya
Promyshlennost', 1964, 248 pp.
*CFSTI TT 68-50368

Sci/Chem
Feb 68

Physico-Chemical Properties of the Elements,
by G. V. Samsonov,
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Elementov, 1965.

*CB
fourth quarter 1966

May 66

Physicochemical Properties of Individual Hydrocarbons, by V. M. Tatevskiy, (edited by).

RUSSIAN, bk, Fiziko-Khimicheskie Svoista Individual'nykh Ugleodorodov, 1961.

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Sci - Chem

Oct 62

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"Recommendations
Znacheniya"*

PHYSICOCHEMICAL PROPERTIES OF GLASS FIBER, BY
A. F. ZAK, 282 PP.

RUSSIAN, BK, FIZIKO-KHIMICHESKI'YE SVOYSTVA
STEKLYANNOGO VOLOKNA, MOSCOW, 1962, PP 1-224.

JPRS 19122

SCI-CHEM
MAY 63

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Urusovskaya, A. A.
FORMATION OF REGIONS WITH REORIENTATED
LATTICE DURING THE DEFORMATION OF SINGLE
AND POLYCRYSTALLINE METALS AND MINERALS
(Obrazovanie Oblastei s Pereorientirovannoi Reshetkoi
pri Deformatsii Mono- i Polykristallov). May 61 [32]p.
47 refs. RTS 1772.
Order from OTS or SLA \$3.60

61-23146

Trans. of Itogi Nauki. Fiziko-Matematicheskie Nauki
(USSR) 1960, v. 3, p. 75-116.

DESCRIPTORS: *Metallic crystals, Lattices, Minerals,
Crystal structure.

A historical review is given of studies on deformation
arising from the rotation of crystal lattices under the
influence of mechanical forces. Topics include: rota-
tion bands in minerals; kink-band formation in metal
crystals on deformation by compression; kinks in metal
(Physics--Solid State, TT. v. 6, no. 8) (over)

61-23146

I. Urusovskaya, A. A.
II. RTS-1772
III. Department of Scientific
and Industrial Research
(Gr. Brit.)

195177

Office of Technical Services

63-11002

Ostroumov, G. A.
THEORY OF MAGNETIC MIXING OF MELTS, by
Z. Lerman. 1963, 44p. 9 refs. PL-480 Comm.
Order from OTS \$0.50 63-11002

I. Ostroumov, G. A.
II. PL-480 Comm (63-11002)
III. National Science
Foundation,
Washington, D. C.

Trans. of mono. Fiziko-Matematicheskie Osnovy
Magnitnogo Peremeshivaniya Rasplavov, Moscow, 1960
[63 p.]

DESCRIPTORS: *Electroforming, *Liquid metals,
Mixtures, *Hydrodynamics, Metallurgy, Theory,
Electromagnetic waves, Propagation,
Magnetohydrodynamics.

This book contains an electrodynamic part, where the
propagation of a travelling wave in a half-space and in
a finite conductor are discussed and the distribution of
electrodynamic body forces is derived; a hydrodynamic
part, dealing with the optimization of stator current
(Metallurgy, TT, v. 10, no. 3) (over)

Office of Technical Services

Physico-Mathematical Fundamentals for Magnetic
Mixing of Melts, by G. A. Ostroumov.

RUSSIAN, monograph, Fiziko-Matematicheskkiye
Osvovy Magnitnogo Peremeshivaniya Rasplavov,
Moscow, 1960, 63 pp.

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Sci
14 Feb 63
Vol VIII, No 11

Physical and Mechanical Properties of
Electrolytic Coatings, by A. Vagramyan,
Yu. Petrova, 1960, 1961

RUSSIAN, bk, Fiziko-Mekhanicheskoe Svoista
Elektroliticheskikh. 1960, 1961

Sci - Engr

Jul 61

AEC ⁴(UCRL-Trans-10502) ⁵PHYSICAL NATURE OF
THE DENSITY OF IGNEOUS AND METAMORPHIC ROCKS
AND ITS PHYSICAL SIGNIFICANCE. ⁶Zhdanov, V. V. ¹⁰Trans-
lated by A. M. Mincer for Univ. of California Lawrence Radiation
Lab., Livermore, from ¹¹Fiziko-Mekhanicheske Svoistva
Gornykh Porod Verkhnei Chasti Zemnoi Kory. November 30-
December 4, 1964, Moscow. ²⁰24p. ²³(CONF-641140-1). ²⁴Dep.
NTIS.

²⁵

²⁶geology; translations ²⁷08G

²⁸MN-51 ²⁹P NSA

Physical and Mechanical Properties of Rocks,
152 pp.
RUSSIAN, bk, Fiziko-Mekhanicheskie Svoistva
Gornykh Porod, 1964.
CPSTI IT 67-51256

Sci/DAM
Jan 68

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Burmistrova, Mariia Fedorovna, et al

Physico-Mechanical Properties of Agricultural Crops.

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*PL 420
OES 61-31216
ARS

Dec 61

R-5242-D

Physical and Mechanical Properties and
Processes of Formation of the Snow-Firn Cover
of Eastern Antarctica, by S. N. Kartashov,
RUSSIAN, bk, Fiziko-Mekhanicheskiye Svoystva i
Protsessy Formirovaniya Snezhno-Firnovoto
Pokrova Vostochnoy Antarktidy, Moscow, 1962,
pp 3-108.

*JPRS/Army CRREL

Apr 65

Agency: Nat. Bu. of Standards
P.O.No. S-172390-69

R-10126-D
13 Feb. 1969

Title: Calculation of the Energy of the Electronic
Affinity of Cyan by the Method of Surface
Ionization of KCN and KCNS Molecules

Author: I.N.Bakulina, and N.I.Ionov

Source: Fizik-Technical Institute of Leningrad. 1954 No.6

Language: Russian

2pp

Special Instruction: Please translate and type 1 copy only

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Physico-statistical technique of long-range
weather forecasting

Yudin, M.I.

Russ mon: Fiziko-statisticheskii metod dolgosro-
chnykh prognozov pogody, 1968, 28 pgs.

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NAC*

Investigation of the Microstructure
of Copper Deformed in an Ultrasonic Field
by V. P. Severdenko, V. V. Klubovich, 6 pp.
RUSSIAN, rpt, Fiziko-Tekhnicheskiy Institut,
Sbornik Nauchnykh Trudov, Izd-Vo Nauka i
Tekhnika, AN BSSR, 1964, pp 124-128.
PI00068067
FTD TT 65-1408

Sci-Materials
Mar 67

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A Stand to Test Materials for Creep in
an Ultrasonic Field, by Ye. G. Konovalov,
E. I. Remizovskiy, 6 pp.
RUSSIAN, rpt, Fiziko-Tekhnicheskiy Institut,
Sbornik Nauchnykh Trudov, Izd-Vo Nauka i
Tekhnika, AN BSSR, 1964, pp 128-133.
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FTD TT 65-1008

Sci-Materials
Mar 67

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SOVIET BOOK ON HUMAN ENGINEERING, ~~XOM~~ BY
OREST ALEKSANDROVICH SIDOROV, 15 PP.

RUSSIAN, BK, FIZIOLOGICHESKIYE FAKTORY CHELOVEKA
OPREDELYAYUSHCHIYE KOMPONOVKU POSTA UPRAVLENIYA
MASHIN, MOSCOW, 1962, PP 3-12, 360-363.

JPRS 18772

SCI - BIOL- MED SCI

APR 63

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Human Physiological Factors Determining the Arrangement of a Machine Control Position, by O. A. Sidorov, 223 pp.

RUSSIAN, bk, Fiziologicheskiye Faktory Cheloveka, Opredelyayushchiye Komponenty Posta Upravleniya Mashinoy, Moscow, 1962, pp 18-39; 88-247; 289-359.

ACSI I-5670

ID 2204044564

Sci - B & M Sci
Jan 65

270,806

Conclusions and Table of Contents From
"Physiological Mechanisms of Malignant Tumor
Growth, by L. V. Latmanizova, 20 pp.

physiol *biologicheskoye* *Mekhanizmy*
RUSSIAN, ~~and~~ *Fiz, Mekh* Zlokachestvennogo Opukhele-
vogo Rosta, Moscow, 1962, pp 63-72, 79.

JPRS 15260

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Sci - Med

Oct 62

Quantitative Fluorescence Method of the
Determination of Traces of Oxygen in Water, by
M. A. Konstantinova-Shlezinger, V. S. Krasnova.

RUSSIAN, per, Fizicheskije Metody Issledovaniya,
Vol XI, No 6, 1945, pp 567-569.

NLL M. 3294

Sci - Chem

191, 910

Apr 62

Data for the Study of Fatigue Processes Under Static Stress, by N. K. Vereshchagin, V. V. Rosenblat, 18 pp.

RUSSIAN, per, Fiziol Nervnykh Protessov, 1955, pp A 377-388.

SLA R-3558

Sci

Aug 59

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The Major Causes of Fatigue in Patients in the
Initial Stage of Hypertension, by F. Y. Primak,
12 pp.

RUSSIAN, per, Fiziol Serverykh Protseessov, 1955,
pp 389-395.

SLA R-3576

Sci

Aug 59

95,072

Changes in Various Physiological and Biochemical Processes Under the Influence of Heavy Muscular Stress, by G. G. Didenko, A. G. Filippova, 11 pp.

RUSSIAN, per, Fiziol. Nervnykh Protsessov, 1955, pp 429-437.

SLA R-3560

Sci

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The Physiological Justification for the Thinning
of Forests, by A. V. Savina, 91 pp.

RUSSIAN, bk, Fiziologicheskoe Obosnovanie Rubok Urzhoda,
1956, 74 pp.

OTS 60-51130
FL-480

Sci - Biol
Feb 61
PST No. 171

139,804

Physiological Basis of Physical Culture and Sport, by
N. V. Zimkin, A. V. Korobkov, Ya. B. Lekhtman,
Ya. A. Egolinsky, A. I. Yarotsky, 483 pp.

RUSSIAN, bk, Fiziologicheskie Osnovy Fizicheskoy
Kul'tury i Sports, 1955.

ACSI H-⁵719

USSR

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May 60

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Physiological Bases for Increased Endurance
of People Under Intense Thermal Conditions
by S. A. Iosel'son, 111 pp.
RUSSIAN, bk, Fiziologicheskiye Osnovy
Povysheniya Vynoslivosti Lyudey K
Intensivnym Teplovym Vozdeystviyam, 1963,
pp 1-88.
FTD MT 65-493

Sci-Phys
Jun 67

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Physiological Principles of a Sojourn of a
Human in Conditions of Raised Pressure of the
Gaseous Medium, by G. L. Zal'tsman,
RUSSIAN, bk, Fiziologicheskiye Osnovy Preby-
vaniya Cheloveka v Usloviyakh Povyshennogo
Davleniya Gazovoy Sredy, 1961, 111pp, 88.

P908224467-V

FTD-MT-65-245

Sci-B&M

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335,495

The Physiological Bases of Man's Survival
Under Conditions of Increased Pressures in
a Gas Medium, by G. L. Zal'tsman, 37 pp.

RUSSIAN, bk, Fiziologicheskiye Osnovy
Prebyvaniya Cheloveka v Usloviyakh Povyshennogo
Davleniya Gazovoy Sredy, 1961, pp 92-95, 113-119,
125-131, 159-166.

JPRS 12309

Sci - Med
Feb 62

182,176

~~EKAX~~ Physiological Foundations of the Salt Resistance
of Plants, With ~~EG~~ Regard to Different Types of Soil
Salination, by B. F. Stroganov.

RUSSIAN, no mono, Fiziologichesk^ye Osnovy Solcustoich^{iv}
ivost: Ras Tenii, Moscow, 1962, 385 pp.

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Physiological Principles of Training With Protective Gas Masks, by V. K. Solov'yev, 87 pp.
(ID 2112775)

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ACSI, H-4458

Sci -Med

Sep 59

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61-31038

Stroganov, N. S.
PHYSIOLOGICAL ADAPTABILITY OF FISH TO THE
TEMPERATURE OF THE SURROUNDING MEDIUM,
tr. by M. Roublev. 1962, 108p. 165 refs.
PL-480 Int.

Order from OTS \$1.00

61-31038

Trans. of mono. Fiziologicheskaya Priposoblyаемost'
Ryb k Temperature Sredy, Moscow, 1956 [156]p.

DESCRIPTORS: *Fishes, *Adaptation (Physiology)
*Hypothermia, *Hyperthermia, Metabolism, Age
factors, *Genetics, Reproduction.

Contents:

Materials and methods

Displacement of the temperature adaptation zone

Development of the process of adaptability Rapid
changes in temperatureThe theoretical concept of thermal death of organisms
(Biological Sciences--Zoology, TT, v. 8, no. 11)

(over)

- I. Stroganov, N. S.
- II. PL-480 Int (61-31038)
- III. National Science Foundation,
Washington, D. C.

Office of Technical Services

Fiziologiya Rasteniy, Vol 8, No 6, Nov-Dec 1961,
pp 649-745.

Full tr by The American Institute of Biological Sci
Vol 8, No 6, May-June 1962

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June 70

Conference on Measurement of Visible Radiation in plant
Physiology Agrometeorology and Ecology April 20-21, 1960,
by A.A.Nichiporovich.
RUSSIAN, per, Fiziol Rastenii Akad Nauk SSSR, Vol 7, No 5,
1960, pp 7-744
NRC/Ref C-3996

Sci -
Aug 67

335,973

Physiological Reactions of the Human Organism to Transverse Accelerations and Means of Raising the Resistance to Such Forces: Paper Presented at the Fifteenth International Astronautical Congress Held in Warsaw on 7-12 September 1964, by A. S. Barer, et al, 14 pp.

RUSSIAN, rpt, Fiziologicheskiye Reaktsii Organizma Cheloveka na Poperechno Napravlennoye Uskoreniye i Nekotoryye Puti Povysheniya Ustoychivosti k Etm

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